

GenCore version 4.5
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OM protein - protein search, using sw model

Run on: March 1, 2001, 15:47:20 ; Search time 210.42 Seconds
(without alignments)
7.638 Million cell updates/sec

Title: US-09-331-631A-8_COPY_33_79
Perfect score: 2/5
Sequence: 1 GDDPPKRYEDCRRRCCEWDT.....OCESCKSOYGEKDDQQRHR 47

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 268485 seqs, 34193795 residues

Total number of hits satisfying chosen parameters: 268485

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database :

A_Geneseq.36.*
1: /SIDSI/gcgdata/geneseq/geneseq/AA1980.DAT.*
2: /SIDSI/gcgdata/geneseq/geneseq/AA1981.DAT.*
3: /SIDSI/gcgdata/geneseq/geneseq/AA1982.DAT.*
4: /SIDSI/gcgdata/geneseq/geneseq/AA1983.DAT.*
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6: /SIDSI/gcgdata/geneseq/geneseq/AA1985.DAT.*
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9: /SIDSI/gcgdata/geneseq/geneseq/AA1988.DAT.*
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11: /SIDSI/gcgdata/geneseq/geneseq/AA1990.DAT.*
12: /SIDSI/gcgdata/geneseq/geneseq/AA1991.DAT.*
13: /SIDSI/gcgdata/geneseq/geneseq/AA1992.DAT.*
14: /SIDSI/gcgdata/geneseq/geneseq/AA1993.DAT.*
15: /SIDSI/gcgdata/geneseq/geneseq/AA1994.DAT.*
16: /SIDSI/gcgdata/geneseq/geneseq/AA1995.DAT.*
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18: /SIDSI/gcgdata/geneseq/geneseq/AA1997.DAT.*
19: /SIDSI/gcgdata/geneseq/geneseq/AA1998.DAT.*
20: /SIDSI/gcgdata/geneseq/geneseq/AA1999.DAT.*
21: /SIDSI/gcgdata/geneseq/geneseq/AA2000.DAT.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	275	100.0	590	19	Gossypium hirsutum
2	124	45.1	525	19	Theobroma cacao an
3	124	45.1	566	13	Sequence encoded b
4	94	34.2	666	19	Macadamia integrif
5	92	33.5	666	19	Macadamia integrif
6	88	32.0	625	19	Macadamia integrif
7	62	22.5	360	20	Human Machado-Jose
8	61	22.2	28	19	Stenocarpus sinuat
9	61	22.2	265	12	HTLV-1 protein exp
10	60	21.8	259	20	Expressed antigen
11	60	21.8	303	15	Chlamydia immuti
12	60	21.8	810	20	Chlamydia pneumoni

13	60	21.8	810	20	V34602	Chlamydia pneumoni
14	60	21.6	1743	19	W98879	H. pylori GHPO 175
15	59.5	21.6	593	19	W62835	Zea mays antimicro
16	59	21.5	491	18	W35292	Human disintegrin
17	59	21.5	691	21	V79033	Human Kuz amino ac
18	59	21.5	748	19	W70457	Mutant human disin
19	59	21.5	748	19	W56132	Homo sapiens trans
20	59	21.5	748	20	V16776	Human disintegrin
21	59	21.5	799	18	W35293	Human disintegrin
22	59	21.5	799	19	W70456	Human disintegrin
23	59	21.5	2150	21	V53898	Amino acid sequenc
24	58	21.1	71	21	V74316	Neisseria meningit
25	58	21.1	84	21	V74315	Neisseria meningit
26	57.5	20.9	162	20	V30436	Acute nematode ex
27	57.5	20.9	181	17	R91711	ACA45. Ankylos
28	57.5	20.9	181	20	V30409	Nematode extracted
29	57.5	20.9	443	18	W22110	Human extracellular
30	57.5	20.9	443	20	V16587	Human extracellular
31	57.5	20.9	443	21	V84706	Human acid sequenc
32	57.5	20.9	443	21	V84707	Amino acid sequenc
33	57.5	20.9	443	21	V55850	Human SI-5 FCMF-1i
34	57.5	20.9	671	21	V09426	Human PRO1604 (UNQ
35	57	20.7	342	20	V16785	Human secreted pro
36	57	20.7	1898	20	V30795	A human trichohyal
37	56.5	20.5	174	20	W89904	Antigen from clust
38	56.5	20.5	432	20	W93954	Human regulatory m
39	56	20.4	267	20	W89907	Antigen from clust
40	55.5	20.2	434	17	R66419	Peptide fragment o
41	55.5	20.2	434	17	R66420	Peptide fragment o
42	55.5	20.2	2237	14	R33550	Sequence of the al
43	55.5	20.2	2237	16	R71006	Human neuronal cal
44	55.5	20.2	2237	19	W63142	Human calcium chan
45	55.5	20.2	2337	19	W37878	Human calcium chan

ALIGNMENTS

RESULT 1	
W62832	W62832 standard; Protein: 590 AA.
ID	
XX	
AC	W62832:
XX	
DT	27-OCT-1998 (first entry)
XX	
DE	Gossypium hirsutum antimicrobial protein.
XX	
KW	antimicrobial protein; infestation; control.
XX	
OS	Gossypium hirsutum.
XX	
PN	W09827805-A1.
XX	
PD	02-JUL-1998.
XX	
PF	22-DEC-1997; 97WO-AU00874.
XX	
PR	20-DEC-1996; 96AU-0004275.
XX	
PA	(RETR-) COOP RES CENT TROPICAL PLANT PATHOLOGY.
XX	
PI	Bower NF, Goulter KC, Green JL, Mannes JM, Marcus JP;
XX	
DR	WPI: 1998-377279/32.
XX	
PT	Novel anti-microbial protein from e.g. Macadamia integrifolia -
XX	
PS	useful for controlling microbial infestations of plants or mammals
XX	
CC	Claim 1: Page 49-51; 96pp; English.
XX	
CC	The sequence is that of an antimicrobial protein which can
XX	
CC	be used to control microbial infestations in plants and mammalian

[illegible]

KW		antimicrobial protein; infestation; control.
XX		
OS		Stenocarpus sinuatus.
XX		
PN		WO9827805-A1.
PD		02-JUL-1998.
XX		
PF		22-DEC-1997; 97WO-AU00874.
XX		
PR		20-DEC-1996; 96AU-0004275.
XX		
PA		(RETR-) COOP RES CENT TROPICAL PLANT PATHOLOGY.
XX		
PI		Bower NI, Goulter KC, Green JL, Manners JM, Marcus JP;
DR		WP1; 1998-377279/32.
XX		
PT		Novel anti-microbial protein from e.g. Macadamia integrifolia -
PT		useful for controlling microbial infestations of plants or mammals
XX		
PS		Claim 1; Page 66; 96pp; English.
CC		The sequence is that of an antimicrobial protein which can
CC		be used to control microbial infestations in plants and mammalian
CC		animals.
XX		
SQ		Sequence 28 AA;
Query Match	22.2%; Score 61; DB 19; Length 28;	
Best Local Similarity	33.3%; Pred. NO. 1.2;	
Matches 9; Conservative 9; Mismatches 9; Indels 0; Gaps 0;		
OY	4 DPKRYEDCRRCCEMDTGRKEQQOC 30	
	:: :	
DB	2 dpirgqqlcmrcgqgekprgqqck 28	
RESULT 9		
R12844		
ID	R12844 standard; Protein; 265 AA.	
XX		
AC	R12844;	
XX		
DT	18-SEP-1991 (first entry)	
DE	HTLV-1 protein expressed by antisense nucleotides 1589-2383.	
XX		
KW	human T-cell lymphotropic virus-1; ORF; vaccine; antisense RNA.	
XX		
OS	Human T cell lymphotropic virus.	
XX		
PM	USA999421-A.	
XX		
PD	12-MAR-1991.	
XX		
PF	27-JUN-1988; 88US-0211749.	
XX		
PR	27-JUN-1988; 88US-0211749.	
XX		
PA	(TRIT-) TRITON BIOSCIENCES.	
XX		
PI	Brunck TK, Larocca DJ, Monahan JJ;	
XX		
DR	WP1; 1991-206841/28.	
DR	N-PSDB; Q12502.	
XX		
PT	Proteins encoded by ribonucleic acid anti-sense strand - to human	
PT	T-cell leukaemia virus 1 viral RNA useful as diagnostic agents,	
PT	vaccines and therapeutic agents	
XX		
PS	Claim 1; Column 16; 15pp; English.	

XX This polypeptide is encoded by nucleotides 1589-2383 in the reverse
 CC complement of the HTLV-I genome (complementary to nucleotides 7479-
 CC 6685, 3'-5' of the HTLV-I sense mRNA). Peptide fragments
 CC corresponding to at least 10 amino acids from this sequence are
 CC disclosed. See also Q12499-Q12501 and Q12503.

SQ Sequence 265 AA;

Query Match 22.2%; Score 61; DB 12; Length 265;

Best Local Similarity 26.5%; Pred. No. 11;

Matches 13; Conservative 17; Mismatches 17; Indels 2; Gaps 1;

OY 1 GDDPPK-RYEDCRRCMDTRGQKQEQOCEESCKSQYGEKQOQRHR 47

Db 123 gekappgehrdtrgrtaeekrkkrkeeketaeylkrkeekar 171

RESULT 10

ID W90009

W90009 standard; Protein: 259 AA.

XX W90009;

DT 18-FEB-1999 (first entry)

DE Expressed antigen for cluster 33.

KW Antigen; immunogenic cluster family; vaccine; gastritis; diagnosis;

KW peptic ulcer; gastric adenocarcinoma; gastric lymphoma.

XX Helicobacter pylori.

XX W09849314-A2.

PN 05-NOV-1998.

PF 27-APR-1998; 98WO-0508487.

PR 14-OCT-1997; 97US-0061958.

PR 25-APR-1997; 97US-0045107.

XX (GENE-) GENELABS TECHNOLOGIES INC.

PI Chow TP, Fry KE, Lim MY, McAtree CP;

DR WPI; 1999-009433/01.

XX New Helicobacter pylori antigens and related nucleic acid sequences

PT - useful in serological diagnosis and protective vaccines, providing

PT long-lasting immune response

XX Claim 16: Page 336-337; 402pp; English.

CC The present sequence represents a Helicobacter pylori antigenic protein

CC that is characterised by immunoreactivity with H. pylori-positive

CC antisera. The proteins are highly immunogenic and induce a long-lasting

CC immune response that persists even after antimicrobial treatment. In

CC antibody-detection assays, on sera, plasma, urine, saliva etc., they are

CC highly sensitive and specific. The specification also describes 69

CC previously unrecognised immunogenic cluster families. H. pylori antigens

CC are used to detect H. pylori-specific antibodies, for diagnosing

CC infection or to confirm eradication of infection, and in vaccines to

CC protect against H. pylori infection and related diseases (gastritis,

CC peptic ulcer, gastric adenocarcinoma/lymphoma).

XX Sequence 259 AA;

Query Match 21.8%; Score 60; DB 20; Length 259;

Best Local Similarity 34.2%; Pred. No. 14;

Matches 13; Conservative 9; Mismatches 12; Indels 4; Gaps 1;

OY 7 KRYEDCRRCMDTRGQKQEQOCEESCKSQYGEKQOQRHR 44

Db 173 kaykdcvsk-----arnekekeceeklltpearlkleq 206

RESULT 11

ID R60054

R60054 standard; Protein: 303 AA.

XX R60054;

DT 21-MAR-1995 (first entry)

DE Dirofilaria immitis parasitic helminth protein.

KW Clones; p4; p22U; infection; heartworm; vaccine; larval.

XX Dirofilaria immitis.

OS W0941593-A.

PN 21-JUL-1994.

PF 12-JAN-1994; 94WO-US00679.

PR 12-JAN-1993; 93US-0003257.

PR 12-JAN-1993; 93US-0003389.

PR 19-AUG-1993; 93US-0109391.

PA (PARA-) PARAVAX INC.

PI Frank GR, Grieve RB, Mika-grieve M, Tripp CA;

DR WPI; 1994-248861/30.

DR N-PSDB; 070048.

PT New parasitic helminth proteins, pref. from Dirofilaria immitis -

PT used to protect animals from helminth infection, pref. heartworm

PS disclosure; Page 121; 154pp; English.

XX The sequence is that of the protein product of larval Dirofilaria

CC immitis clone p4. The parasitic helminth protein can

CC be used to protect animals against helminth infection, esp.

CC heartworm.

CC See also R60055.

XX Sequence 303 AA;

Query Match 21.8%; Score 60; DB 15; Length 303;

Best Local Similarity 37.5%; Pred. No. 16;

Matches 15; Conservative 12; Mismatches 11; Indels 2; Gaps 2;

OY 8 RYEDCRRCMDTRGQKQEQOCEESCKSQYGEKQOQRHR 46

Db 262 rgeeergerqerr-qkeremegerrlqeydekerdqy 300

RESULT 12

ID Y35710

Y35710 standard; Protein: 810 AA.

XX Y35710;

DT 13-SEP-1999 (first entry)

DE Chlamydia pneumoniae transmembrane protein sequence.

XX Respiratory disease; pneumonia; bronchitis; heart disease; sarcoidosis;

KW sinusitis; purulent otitis media; erythema nodosum; pharyngitis;

KW	vaccine; neutralising epitope.
XX	
OS	Chlamydia pneumoniae.
XX	
PN	MO9927105-A2.
XX	
PD	03-JUN-1999.
XX	
PF	20-NOV-1998; 98WO-1B01890.
XX	
XX	04-NOV-1998; 98US-0107078.
PR	21-NOV-1997; 97FR-0014673.
XX	
PA	(GEST) GENSET.
XX	
PI	Griffais R;
XX	
DR	WPI: 1999-357842/30.
XX	
PT	Genome sequence of Chlamydia pneumoniae
XX	
PS	Page 1415-1416; Disclosure: 1912pp; English.
XX	
CC	Y34584-Y35879 represent the proteins encoded by all the open reading
CC	frames in the complete genome (see X81990) of Chlamydia pneumoniae.
CC	C. pneumoniae causes respiratory disease such as pneumonia and
CC	bronchitis and is thought to be a contributing factor in heart
CC	disease, sarcoidosis, sinusitis, purulent otitis media, erythema
CC	nodosum or pharyngitis. The polypeptides encoded by the open reading
CC	frames of the C. pneumoniae genome (see Y34584-Y35879) can be used in
CC	immunogenic compositions as vaccines. Vectors containing C. pneumoniae
CC	nucleotides sequences can also be used as immunogenic compositions,
CC	especially where the vector directs the expression of a neutralising
CC	epitope of C. pneumoniae.
XX	
SO	Sequence 810 AA:
	Query Match 21.8%; Score 60; DB 20; Length 810;
	Best Local Similarity 26.2%; Pred. NO. 44;
	Matches 11; Conservative 12; Mismatches 19; Indels 0; Gaps 0;
OY	2 DDDPKRYEDCRRRCMDTRGQKEQOQCEESKSGYGEKDDQ 43
	1:1 : 1 :1::1 : : 1 : 1 : : 1 : 1
DB	620 dedlrrayecqkrfqgdsjlesvcracqrlreriqefetq 661
RESULT 13	
Y34602	
ID	Y34602 standard; Protein; 810 AA.
XX	
AC	Y34602;
XX	
DT	13-SEP-1999 (first entry)
XX	
DE	Chlamydia pneumoniae transmembrane protein sequence.
XX	
KW	Respiratory disease; pneumonia; bronchitis; heart disease; sarcoidosis;
KW	sinusitis; purulent otitis media; erythema nodosum; pharyngitis;
KW	vaccine; neutralising epitope.
XX	
OS	Chlamydia pneumoniae.
XX	
PN	MO9927105-A2.
XX	
PD	03-JUN-1999.
XX	
PF	20-NOV-1998; 98WO-1B01890.
XX	
PR	04-NOV-1998; 98US-0107078.
PR	21-NOV-1997; 97FR-0014673.
XX	
PA	(GEST) GENSET.

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xx      Griflais R;
xx      WP1; 1999-357842/30.
xx
xx      Genome sequence of Chlamydia pneumoniae
xx
xx      Page 625-627; Disclosure; 1912pp; English.
xx
xx      Y34584-Y35879 represent the proteins encoded by all the open reading
xx      frames in the complete genome (see X91990) of Chlamydia pneumoniae.
xx      C. pneumoniae causes respiratory disease such as pneumonia and
xx      bronchitis and is thought to be a contributing factor in heart
xx      disease, sarcoidosis, sinusitis, purulent otitis media, erythema
xx      nodosum or pharyngitis. The polypeptides encoded by the open reading
xx      frames of the C. pneumoniae vaccine (see Y34584-Y35879) can be used in
xx      immunogenic compositions as vaccines. Vectors containing C. pneumoniae
xx      nucleotides sequences can also be used as immunogenic compositions,
xx      especially where the vector directs the expression of a neutralising
xx      epitope of C. pneumoniae.
xx
xx      Sequence      810 AA;
xx
yy      Query Match          21.8%; Score 60; DB 20; Length 810;
yy      Best Local Similarity 26.2%; Pred. No. 44;
yy      Matches    11; Conservative   12; Mismatches    19; Indels     0; Gaps     0;
yy
yy      2 DDDPPKRYEDCRRRCENIDPRGQKEEQQCCESSKSQVGEKDQ 43
yy      |:|::||:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|
yy      620 dedlrrayecqkrlfgdsglsevracrqlerrlgelqtg 661
yy
yy      RESULT  14
yy      W98879
yy      W98879 standard; Protein; 1743 AA.
yy
yy      AC      W98879;
yy      XX
yy      DT      31-MAR-1999 (first entry)
yy      XX
yy      DE      H. pylori GHPO 1755 protein.
yy      KW      GHPO protein; Helicobacter infection; gastroduodenal disease; gastritis;
yy      KW      peptic ulcer disease.
yy      OS      Helicobacter pylori.
yy      XX
yy      PN      W09843478-A1.
yy      XX
yy      PD      08-OCT-1998.
yy      PE      01-APR-1998; 98WO-US06371.
yy      PF
yy      XX      29-JUL-1997; 97US-0902615.
yy      PR      01-APR-1997; 97US-0833457.
yy      PR      24-JUN-1997; 97US-0881227.
yy      XX
yy      PA      (HUMA-) HUMAN GENOME SCI INC.
yy      PA      (INMR ) MERIEUX ORAVAX PASTEUR MERIEUX SERUMS.
yy      XX
yy      PI      Al-Garawi A, Kleanthous H, Miller C, Oomen RP, Tomb J;
yy      DR      WP1; 1998-543293/46.
yy      DR      N-PDB; X14598.
yy      XX
yy      PT      New isolated Helicobacter polynucleotides - used to develop products
yy      PT      for the diagnosis, prevention and treatment of Helicobacter
yy      PT      infections and gastrointestinal diseases
yy      XX
yy      SS      Claim 8; Page 2000-2008; 2054pp; English.
yy
yy      This sequence represents a Helicobacter pylori GHPO protein of the

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